

ARIZONA'S BIG COPPER OUTPUT

Metal Mined Last Year Gives Territory Second Place For Quantity.

The blister copper produced in Arizona in 1906 amounted to 262,566,193 pounds, an increase of 35,000,000 pounds over the production of the territory in 1905, and a larger increase by far than that of any other territory or state. The mines yielded a slightly larger quantity, all of which reached the smelters but was not wholly worked up during the year. The territory now stands second in production, the output of Michigan, which is exceeded in 1905, having fallen off slightly in 1906.

Many districts contributed to the output but the great bulk of the production was derived at the great copper camps of the territory. Arizona thus differs from the two great copper-producing states—Montana and Michigan—which have not one important district each.

Biisbee or Warren District. The Biisbee or Warren district, in Cochise county, the third largest district in the country and the largest in Arizona, made a record blister copper production of about 131,000,000 pounds in excess of the production of 1905. This output, which would have been even larger but for the failure of the fuel supply in December, was derived almost entirely from the Copper Queen, Calumet and Arizona, Superior and P. & S. and Shattuck—Arizona mines.

If total production since discovery of the district is used as the basis of comparison, Biisbee is undoubtedly the richest. The output of the Biisbee district is estimated to have yielded 8 per cent copper, and while the yield in recent years has fallen somewhat below that percentage, it was above 6 per cent in 1906. All the ore mined in the district is rich enough to smelt, and no concentration is practiced. The ores contain but low values of the outlying mines, considerably too low, on the average, to pay the cost of electrolytic refining.

Morenci District. The copper district at Morenci and Metcalf, in Graham county, produced blister containing over 56,000,000 pounds of copper in 1906, an increase of nearly 5,000,000 pounds over the production of the preceding year. Practically all of the production came from the mines and smelters of the Arizona, Detroit, and Shannon companies. The output would probably have been 2,000,000 pounds larger had not a flood early in December caused the closing of the Arizona Copper company's smelter for the remainder of the year and stopped the receipt of ore at the Shannon plant for nearly twenty days.

The bulk of the ores of this district are of low tenor, nearly 90 per cent of them being of concentrating grade—under 4 1/2 or 5 per cent and averaging 3 1/2 to 3 3/4 per cent. These ores are milled with a concentration of about 6 to 1. The average yield of blister copper from the concentrating ores was slightly over 2 per cent in 1906.

Jerome District. The Jerome district in Yavapai county, produced in 1906 blister copper amounting to 38,500,000 pounds, a notable increase over the production in 1905. The ores of this district are all of smelting grade and carry a high percentage of copper, the average yield in 1906 having been considerably above that of the Biisbee camp, and much higher than that of other large pyritic deposits of Bingham, Utah, Shasta county, Cal., and Ducktown, Tenn. The contents of the ores in gold and silver is also decidedly higher than in any of the other large Arizona copper camps and far above the precious metals yield of the ores of from that of the Bingham and Shattuck of the Bingham and Shattuck county ores.

Globe District. The old silver camp of Globe, in Gila county, produced approximately 27,000,000 pounds of blister copper in 1906, an increase of about 2,000,000 pounds over the yield of 1905. This output was derived chiefly from the Old Dominion and United Globe mines, but the outlying mines, including the Gibson, Warrior, Eureka, Live Oak, and Inspiration, produced more in the aggregate than ever before, and the Arizona Commercial, nearer the larger mines, was also a producer. Fire and consequent flooding in the Old Dominion mine in the early part of the year somewhat reduced the output.

The ores of the Globe district have been known to be of high grade, and the outlying mines are still shipping ores having an average content of considerably over 5 per cent; but the tenor of the ores of this district as a whole has been gradually lowered by the increase in quantity of lower grade concentrating ores and the extraction from old stock of material too poor to be worked in former years, at a lower copper market, so that the average yield from all the ores in 1906 was about 3.4 per cent. A little more than half of the 27,000,000 tons of ore treated in 1906 was concentrated, on an average of 5 to 1.

Other Districts. Outside of the four principal districts, the Silver Bell district, in Pima county, was the largest producer in Arizona, but many other

mines in Pima, Gila, Yavapai and Cochise counties contributed small amounts of copper to the output of the territory. One of the important features of the year in the territory was the blowing in of the custom smelter at Humboldt, Yavapai county.

Considerable Arizona ore was treated at El Paso, some went to Denver, and a little to California. A small quantity of matte was converted in the east.

A detailed report on the production of copper in the United States in 1906 by Mr. L. C. Graton, geologist of the United States geological survey, has been published by the survey as an advance chapter from "Mineral Resources of the United States, calendar year 1906." Copies of this chapter may be obtained without cost by applying to the Director, U. S. Geological Survey, Washington, D. C.

New Mexico Bills In Congress

H. R. 7683, RELATING TO MINING CLAIMS.

A bill to amend section twenty-three hundred and twenty-four of the revised statutes of the United States relating to mining claims. Be it enacted by the senate and house of representatives of the United States of America in congress assembled, that the provisions of section numbered twenty-three hundred and twenty-four of the revised statutes of the United States, which requires that on each claim located after the tenth day of May, eighteen hundred and seventy-two, and until after patent has been issued therefor, not less than one hundred dollars' worth of labor shall be performed or improvements made during each year, be suspended for the year nineteen hundred and seven, so that no mining claim which has been regularly located and recorded as required by the local laws and mining regulations shall be subject to forfeiture for nonperformance of the annual assessment work for the year nineteen hundred and seven: Provided, that the claimant or claimants of any mining location in order to secure the benefit of this act, shall cause to be recorded in the office where the location notice or certificate is filed, on or before December thirty-first, nineteen hundred and seven, a notice that he or they in good faith intend to hold and work said claim.

That this act shall take effect from and after its passage.

RAILWAY DRILLS DEEP TEST WELL

Will Go Down Four Thousand Feet at Swanee Looking for Oil—Navajos Do Large Business in Blankets and Bracelets.

Thoreau, N. M., Dec. 28.—(Special.)—The St. Louis and San Francisco Railway company is drilling a test well on their tract of railroad land at Swanee near here. The well is down now nearly three hundred feet and the order from the company is to put the well down to a maximum of four thousand feet. This portion of the country would be a natural basin for oil and the owners are going to spend enough money to find it if it is there. To the west and north lies one of the largest bodies of coal land anywhere in the United States.

It is thought that the well will be a winner, for there are four chances of a rich strike. Oil, coal, artesian water and gas. John Powell, an Indian, who has much experience in deep well drilling, is the contractor in charge of the company's experiments. This station of the Santa Fe Pacific railway is one of the principal places where the famous Navajo Indian blankets and silverware is bought of the Indians for eastern trade. A. H. and L. K. McGaffey, large the large store and warehouse here. This company also has charge of the commissariat for the American Lumber companies logging camps thirty miles south.

The amount of products of the Navajo Indian in his two famous arts would be a great surprise to those who have long looked upon the Indian as an indigent class. The amount of manufactures will reach up into the millions of dollars.

The winter so far has not been hard on these hogan dwellers, and their sheep and horses are coming through so far in good shape.

PROPOSALS FOR OFFICE BUILDING. Department of the Interior, Office of Indian Affairs, Washington, D. C., Dec. 5, 1907. Sealed proposals plainly marked on the outside of the sealed envelope, "Proposals for Office Building, Santa Fe, New Mexico," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock p. m. of Jan. 13, 1908, for furnishing the necessary materials and labor to construct and complete an office building at the Santa Fe School, N. Mex., in strict accordance with plans, specifications and instructions to bidders, which may be examined at this office, the offices of "The Citizen," Albuquerque, N. Mex., "The New Mexican," Santa Fe, N. Mex., the Builders' and Traders' Exchange at Omaha, Neb., St. Paul, Minn., and Minneapolis, Minn.; the Northwestern Manufacturers' Association, St. Paul, Minn.; the U. S. Indian Warehouses at Chicago, Ill., Omaha, Neb., St. Louis, Mo., New York, N. Y., and at the school. For further information apply to C. J. Crandall, Supt., Santa Fe, New Mexico, or F. LARRABEE, Acting Commissioner.

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FOR RENT—Minneapolis, 524 So. Second St., rooms for light housekeeping. Also bed rooms. Cheapest in city.

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FOR SALE—Four lots on Coal, between Second and Third. Correct face. Cheap at \$2,000. Also 3 lots on Lead between Second and Third, for \$2,000. M. P. Starnes.

FOR SALE—A few bargains in good property cheap if taken within the next few days. One of the best business corners in the city; some choice business lots; a nine room, 2-story, frame dwelling, modern, close in; two 4-room cottages with bath and electric lights \$2,600 for both; three 50-ft lots on East Central avenue \$200 for all three, and many more like them. A. Fleischer, real estate and insurance, 212 1/2 South Second street.

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WANTED—Ladies desiring millinery at cost for next ten days call on Miss C. P. Crane, 512 North Second street. Millinery and dressmaking parlors. Phone 944. Apprentices wanted.

WANTED—Stenographers, bookkeepers, salesmen, managers and office men for open positions in New Mexico, Arizona, Texas and Mexico. The Southwestern Business Association, 203 1/2 E. Central Ave., Albuquerque, N. M., Phone 257.

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